

SYDROS

# USER MANUAL

# SYDROS RO 800 WATER FILTER

Designed and developed in Germany

## Introduction

**Thank you for choosing the SYDROS RO 800 6-stage water filter.** This manual provides you with all the important information about the installation, operation and maintenance of the filtration system, so that you can always enjoy the best water quality. Please read the instructions carefully and keep them for future reference.

**Please read this manual carefully before using the product and store it in a safe place.**

The installation, commissioning, or maintenance of the device must be performed by factory-authorized personnel to ensure that the equipment is in perfect working condition. The manufacturer assumes no responsibility for malfunctions or loss of performance resulting from installation, commissioning, or maintenance without personnel authorized by the manufacturer.

- If the power adapter is damaged, it must be replaced by the manufacturer, its service department, or a specialized company with similar qualifications to avoid hazards. Maintenance of the device and replacement of filter cartridges requires the use of genuine parts approved by our company. Damage or loss of performance caused by the use of unauthorized parts or accessories is not covered by the manufacturer's limited warranty.
- Non-original filter cartridges can cause problems such as a uncertainty regarding the hygiene and safety of the raw materials, reduced filtration performance and lack of seal compatibility.

This can lead to abnormal water quality, safety hazards and a shortened service life of the device. This product is intended for **household use**. In case of commercial use, the service life of the water filter will be shortened.

- Outdoor installation **is strictly prohibited.**
  After installation and commissioning, the user should check the device regularly and maintain it according to use. In case of abnormalities, use must be stopped immediately and customer service should be contacted.
- Before any maintenance work, the device must be disconnected from the power supply. Adjustment and maintenance by unauthorized persons is prohibited.
- If the device has been immersed in water, it must be checked or repaired by a professional before using it again.
- The device must not be covered.
- Do not place heavy objects on the device.

The water filter may only be operated with tap water. Water from unknown sources must not be used. The device must always be positioned carefully to avoid falls and injuries. The water filter must not be installed on a water pipe where the water pressure exceeds 0.4 MPa; if the inlet pressure is higher, a pressure reducer (to be purchased separately) must be installed upstream.

The permissible inlet water temperature is between 5 °C and 38 °C. At temperatures above 38 °C, the filter cartridges will be damaged and lose their effectiveness; at temperatures below 5 °C, the water may freeze, causing the filter elements to crack and leakage. The water filter must not be installed in areas with high temperatures or high humidity. It is essential to correctly follow the sequence of the filter cartridges during installation, otherwise the filter performance will be affected. The water connections must also be connected correctly to ensure proper functioning and not damage the reverse osmosis membrane.

Power cords and plugs must be used properly, as improper use may result in a risk of fire or electric shock. Only a 220 V AC power supply within the specified power range is permitted. The power plug must be inserted firmly into the socket as far as it will go. When unplugging, the cable must not be pulled; the plug must always be grasped directly. The plug must be cleaned regularly of dust. Damaged cables or plugs must not be used. Cables and plugs must not be amaged, modified, exposed to high heat, excessively bent, twisted or tensioned. Repairs to the power cord or plug must only be carried out by a service centre.

Plugging or unplugging with wet hands is prohibited. Water or detergent must not get onto the housing, bottom or plug due to the risk of short circuit, electric shock or fire. The device must not be immersed in water or modified. Repairs or opening of the device are only permitted by trained service technicians, as improper intervention can lead to damage, leaks or malfunctions.

In the event of irregularities or malfunctions, use must be stopped immediately, the appliance must be disconnected from the mains and the water inlet must be closed. Examples of malfunctions include water leakage, cracks or breaks in the appliance, unusual noises or the smell of burning, repeated switching on and off when moving the cable, excessive heating of the mains plug or cable, as well as lack of water production. In all these cases, maintenance is required immediately.

If the water filter is not used for a longer period of time, the water supply and power supply must be disconnected and the tap opened to prevent damage to the device.

The water filter must not be installed in direct sunlight, near hazardous chemicals, or in places where it could be damaged by drops or impacts. Only clean water must be used for cleaning; the appliance must not be splashed directly with water. Steel wool, abrasives or aggressive liquids (e.g. gasoline or acetone) are not suitable for cleaning. No other liquids must be added to the filter cartridges, as this can damage the filtration system. The wastewater line must remain clear and unobstructed at all times, otherwise cartridges or internal components may be damaged. If the sewer pipe is clogged, the water filter must not be operated, as escaping wastewater can moisten the floor.

## 1. Product features

1. Housing with front panel – simple and attractive in design.
2. All water-bearing parts are made of food-safe materials and are therefore safe and harmless.
3. The purified water meets the standards for drinking water; it is more hygienic and is suitable for cooking, including soups
4. Even small household appliances such as humidifiers, steam irons or beauty devices can be used with pure water - annoying white residues are avoided; when it comes to skin care, the pure water provides a refreshing and clean feeling.
5. Triple filtration with layer-by-layer cleaning: removes residual chlorine and E. coli, effectively reduces turbidity, discoloration, visible particles, total dissolved solids content, total microbial count, and heavy metals such as lead, arsenic, cadmium, and hexavalent chromium.
6. Multiple water outlets can be connected, creating a small drinking water system.

### Product Functionality

When using tap water as raw water, the reverse osmosis system for water treatment manufactured by our company meets the requirements of health, safety and functionality according to the standards for "Reverse Osmosis Water Treatment Equipment". The quality of the treated water meets the standards for drinking water.

| PRODUCT NAME | REVERSE OSMOSIS-WATER FILTER |
|---|---|
| MODEL NUMBER | Sydros RO 800 |
| POWER SUPPLY | 100-240 V~/50/60 Hz |
| NOMINAL POWER | 75 W |
| OPERATING PRESSURE | 0.1 – 0.4 MPa / 1-4 bar |
| INLET WATER TEMPERATURE | 5 – 38 °C |
| AMBIENT TEMPERATURE | 4 – 40 °C |
| FLOW RATE | 1,5 L/min |
| TOTAL RATED CAPACITY | 4000 L |
| PRODUCT DIMENSIONS | 405 × 142 × 415 mm |

**Cleaning and maintenance**

When cleaning and maintaining the device, it is important not to use highly volatile solvents such as soap, detergents, thinners, gasoline, or alcohol, as this may cause cracks, scratches, or discoloration. The device must not be cleaned by directly spraying it with water.

Before installation, it is essential to pay attention to the local tap water pressure. If the water pressure is above 0.4 MPa, a pressure reducer must be installed at the water inlet of the water filter, otherwise damage to the device and leaks can occur. If the water pressure is below 0.1 MPa, a booster pump must be installed at the water inlet to raise the pipe pressure. However, the water pressure must not exceed 0.4 MPa (4 bar), otherwise the water production will be impaired.

| ERROR SYMPTOM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| **NO WATER FLOW FROM THE UNIT / LOW WATER PRODUCTION** | PE-hose bent | Replace the PE hose |
| | 3-way inlet valve closed | Open 3-way inlet valve |
| | Water supply interrupted | Wait until the water supply is restored |
| | ACF filter cartridge clogged | Replace the filter cartridge |
| | RO membrane clogged | Replacement of the filter cartridge |
| | Water pressure below minimum value | Install a booster pump |
| | Raw water temperature too low | Increase the temperature of tap water |
| | No power connection or electrical defect | Check power supply or replace defective parts |
| **DEVICE NOT RUNNING** | Power outage | Check the power supply, switch on the device |
| | Power supply defective | Replace the power supply |
| | Water shortage | Check for water; make sure the power is restored and turn the appliance on again |
| | Faucet not fully opened | Open the faucet completely |
| **UNUSUAL TASTE** | Device has not been used for a long time | Rinse all filter cartridges (except RO membrane) for 5 minutes each; if there is no improvement, replace cartridges |
| | Poor raw water quality | Ensure that municipal tap water is used |
| | Cartridge not changed for a long time | Replacement of the filter cartridge |

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| | | |
|---|---|---|
| **UNUSUAL NOISES DURING OPERATION** | Power supply voltage not normal | Contact authorized service personnel |
| | Insufficient raw water inlet or too low pressure | Increase raw water inlet or install booster pump |
| | Transformer damaged by water | Contact authorized service personnel for repair or replacement |
| | Pump defective | Contact authorized service personnel for repair or replacement |
| **DEVICE DOES NOT STOP** | Faucet not completely closed | Close the faucet |
| | Faucet switch defective | Replacement of the faucet |

## Maintenance

### Filter change cycle (recommended change intervals):

| **FILTERPOSITION** | **STAGE 1** | **STAGE 2** | **STAGE 3** |
|---|---|---|---|
| **FILTER TYPE** | ACF filter element | RO1 membrane | RO2 membrane |
| **RECOMMENDED INTERVAL** | 6–12 Months | 12–36 Months | 12–36 Months |

**Filter life indicator**

If the service life of a filter on the tap is still sufficient, the corresponding indicator lights up white. As soon as the service life of a filter has expired, the indicator flashes red.

The actual change cycle depends on the local water quality and the amount used. The intervals given are for reference only. For safe operation and consistently high water quality, a filter change should be carried out in good time.

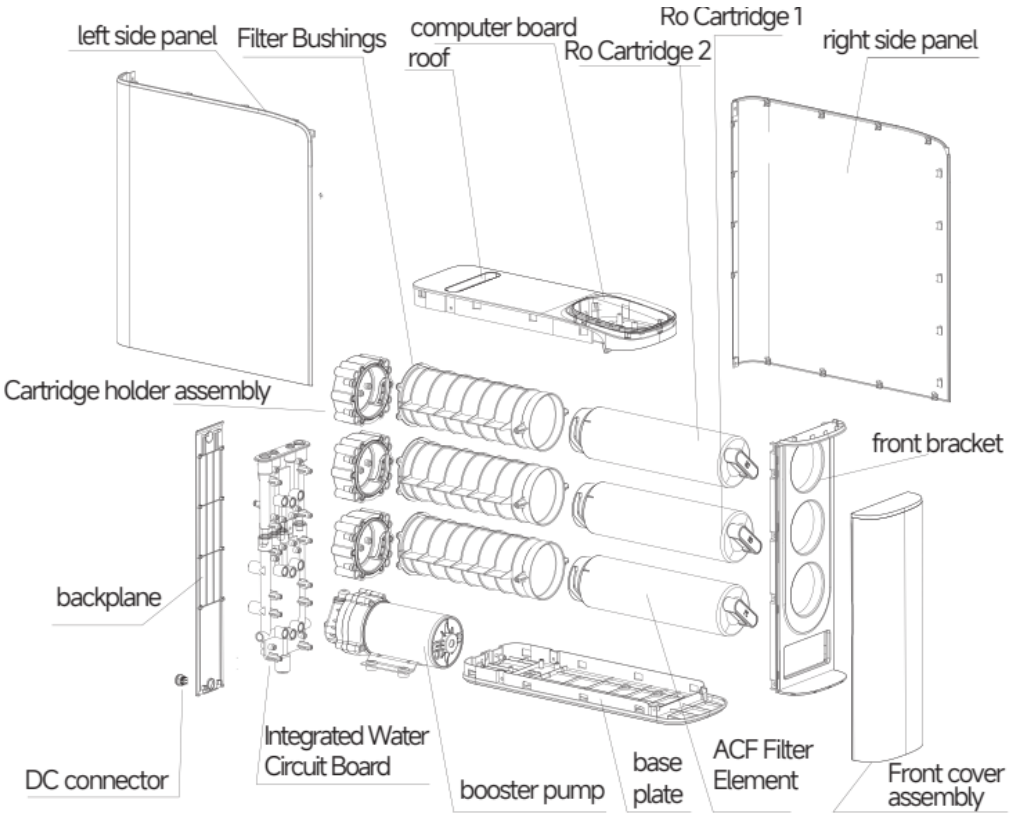
**Note:**

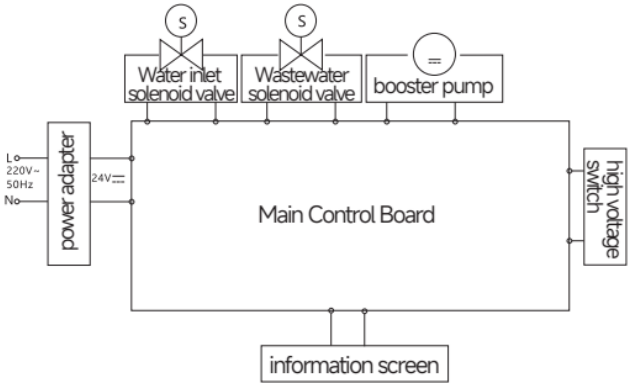
1. In regions where elevated tanks are installed on roofs, they are often not cleaned regularly, which can lead to significant sludge formation. This affects the raw water quality and requires special attention when changing the filter.
2. If the amount of treated water drops significantly or the taste becomes noticeably worse, the filter should be replaced immediately.

**Procedure for changing the filter**

The filter should be changed regularly according to the service life or the recommended interval. The replacement should be carried out by authorized personnel.

1. Turn off the appliance, close the 3-way inlet valve and open the faucet until no more water flows out.
2. Remove the front cover. The filter element and filter bottle are integrated; remove the filter element by turning it counterclockwise install the new filter by turning it clockwise.
3. After inserting the filter, open the 3-way inlet valve and turn the unit back on to reset operation.




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# Scope of Delivery

| ITEM | QTY |
|---|---|
| MAIN UNIT (SYDROS RO-800) | 1× |
| SMART TAP BY SYDROS | 1× |
| 3-WAY INLET VALVE | 1× |
| INSTRUCTION MANUAL | 1× |
| PE WATER HOSE | 2× |
| WATER CONNECTION ADAPTER | 1× |
| ACF-FILTER ELEMENT | 1× |
| RO1-MEMBRAN | 1× |
| RO2-MEMBRAN | 1× |
| EXTERNAL POWER SUPPLY | 1× |

## Installation (See the installation video at www.sydros.de)

Before starting assembly, ensure that all accessories are complete according to the packing list.

The product is designed to be connected to a pressurized municipal water supply. A 220 V~ power connection must be available. The installation site must be clean, hygienic and free from contamination, without direct sunlight. There must be no flammable or explosive materials or electrical equipment in the environment; there must also be no risk of rain. Observe all relevant safety precautions when drilling. Drilling must not be carried out in areas with concealed water, electricity or gas pipes.

Before the work begins, the main power supply must be switched off. After completion, the circuit and working area must be thoroughly checked and cleaned.

There is a quick connector at the outlet that allows for a tool-free, secure connection. This is done by removing the rubber cap, pushing the movable plastic ring at the connector to the port, and inserting the PE hose as far as it will go. It is then retracted slightly to leave a small gap, and the Ω-shaped retaining ring is inserted. To remove the hose, first pull out the retaining ring, then push the plastic ring to the port and remove the hose. When connecting, cut the end of the pipe straight, insert it as far as it will go, pull it back slightly to check the fit, and then insert the retaining ring.

The filter cartridges must be removed from the packaging and the outer protective film removed. Cartridges and filter housings are integrated. They are inserted into the frame in the specified order, inserted horizontally into the water pipe board and tightened clockwise.

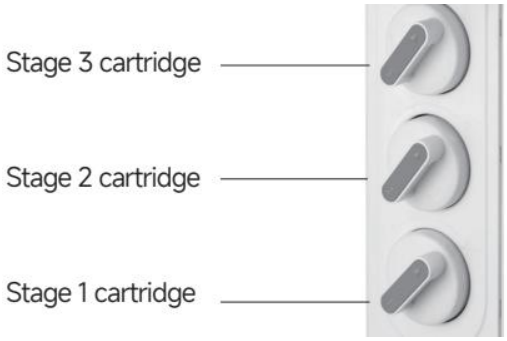
The device can be placed directly in a suitable cabinet. Care must be taken to ensure that it is placed in a stable and even position.

To install the 3-way inlet valve, the installation area is cleaned, the water inlet is shut off and the existing pipe connector or angle valve is dismantled. The 3-way valve is then installed with sealing tape or sealing ring and reconnected to the pipe fitting. One end of the PE hose is connected to the 3-way valve, the other end to the "water inlet" of the device.

The tap is mounted in the designated place of the sink. To do this, mark the drilling position, drill a 25 mm hole and the tap is fixed.

A PE hose of suitable length is attached to the "wastewater" connection of the device and connected to the drain. The hose must be securely fixed so that it cannot come loose. The wastewater hose must not be discharged into a separate container without overflow protection, otherwise there is a risk of flooding.

Before the first use, the cartridges must be flushed. After connecting all components, the 3-way valve is opened so that tap water flows into the device. After that, the power supply is switched on and the control indicator is checked. The device automatically starts the flushing process, which should take about 20 minutes. After completion, the pure water tap is opened so that the device produces water. After 15 minutes, the pure water tap is closed again.




**Use and Instructions**

**Important notes**

Once the water production has been completed, the device stops automatically as soon as the power supply is disconnected. If no water leaks from the tap, check whether the device is connected to the power supply and whether tap water flows in. The "pure water" treated by the water filter can be used directly as drinking water. Before the first use, the filter cartridges must be rinsed in accordance with Section 6.6.

**Instructions for use**

During the first start-up, the tap is opened and the inlet valve is opened, allowing water to flow into the unit. Once water flows from the tap, the tap is closed and the pressure is maintained for 30 minutes to check for possible leaks in the pipes. If there are no flows, press and hold the "Flush" button on the front cover for 5 seconds.

The device then automatically starts the flushing process. After completion, open the tap for about 15 minutes until the water comes out clear and odor-free. *Note: The tap must not be left open for more than 30 minutes, otherwise the system will display an error.*

In normal operation, it is sufficient to open the tap for the device to supply treated water.

If the device has not been used for a long time, a certain amount of water should first be drained before regular use.

## Notes:

- **Wash-button:**
    - If no flush is running, press and hold the rinse button ("WASH") for 3 seconds to start a **strong rinse** (18 seconds duration).
- **Filter Reset:**
    - Press and hold the button for 3 seconds to **enter** filter reset mode .
    - Use the select button to scroll through the available filter options.
    - The display of the selected filter flashes, while the other indicators remain steadily lit. Use the Select button to choose the filter to be reset.
- **Reset filters:**
    - After selecting the desired filter, press and hold the reset button for 3 seconds within the first 10 seconds after changing the filter/cartridge.
    - If no action is taken within 10 seconds, the system automatically ends the reset mode and the filter change has been carried out. After that, the flashing stops and the 3 cartridge signal lamps light up permanently.

- **Turn on/off:**
    - The RO turns on automatically when the power cable is connected.

## 1. Feature status descriptions

**Flush Mode**

During the flushing process, the screen (light strip) flashes to indicate the active flushing mode.

- **Automatic rinsing:**
    - Automatically triggers **every 24 hours or after at least 30 minutes of water production.**
    - In standby mode, there is no flushing.
    - Once triggered, the system performs an automatic flush of 18 seconds.

**Status of water production**

- Screen (LED strip):
    - Shows a running light (moving LED display) during active water production. (May vary by model)

**Filter life indicator**

- The filter indicator may flash if no filter change data is available.
- The default service life calculation mode is based on:
  - the cumulative total usage time,
  - as well as the natural service life of the internal components.

**Filter change indicator**

- When a filter has reached the end of its life:
  - The system emits 10 warning tones.
  - The filter indicator and outer ring will flash until the filter is reset.

**Memory function**

- The flashing state is maintained even after switching off or restarting until it is manually reset.

**Important Maintenance Note**

- When the system stops producing water:
  - The RO membrane is automatically drained and flushed.
  - In the process, approx. 380 ml of wastewater is discharged.

**Note:**

The actual lifespan depends on several factors:

- Quality of the raw water (e.g. turbidity, hardness, impurities)
- Existing water pressure and water temperature
- Daily water consumption (calculation basis: approx. 10 litres per day)

The values given are provided as **a guideline**. The actual time for the filter change may vary.

### ⚠️ Signs of a necessary filter change

Replace the filter element immediately if any of the following occurs:

- Noticeably poor taste or reduced water quality
- Significantly reduced water flow
    - Note: Before doing so, make sure that the cause is not low water pressure or a low water temperature.
- Severe clogging of the filter
    - This prevents the system from producing or dispensing clean water.

## 2. Cartridge Replacement Instructions

### a) Preparation

- Close the water supply.
- Open the faucet to release the internal pressure.
- Wait 3-5 minutes before turning off the device.
- Note: When opening the filter housing, a small amount of residual water may leak out.

**Step-by-Step Replacement**

**Step 1: Switch off & empty**

- Turn off the appliance and the faucet and wait for the system to depressurize.

**Step 2: Identify filters**

- Open the cover plate.
- Select the filter you want to replace.
- Turn the filter element counterclockwise by hand.
- Remove the filter once it is aligned with the symbol "○" or "Δ" (see Figure 1).

**Step 3: Clean and Replace**

- Clean the area around the cartridge bay with a dry towel.
- Insert the new filter and twist it firmly until it is securely in place. (Rotate clockwise)

**Installing the New Filter Elements**

**Step 1: Align and install the new filter**

- Align the filter logo **"Δ"** with the **"" mark of** 🔓 the system.
- Rotate the filter clockwise until the logo **aligns with the "** 🔒 " marker.
- This confirms that the filter is installed correctly and securely (see Figure 2).

**Step 2: Attach the cover plate**

- After the filter has been inserted correctly, reattach the cover plate to the device (see Figure 3).

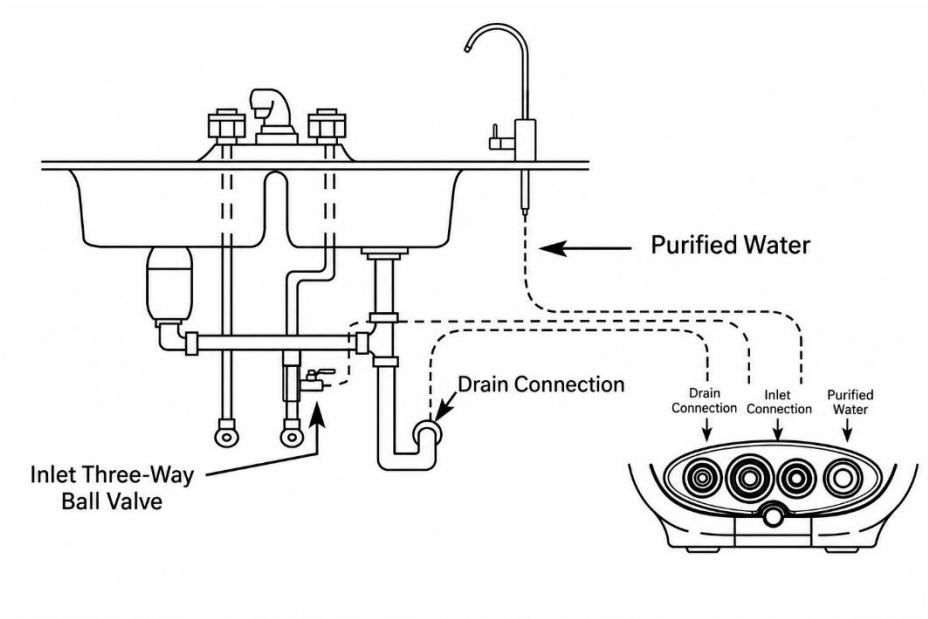
**Step 3: Reset filters using the touch panel**

- Reconnect the power supply and water supply.
- Press and hold the **reset button** for 3 seconds to enter filter reset mode.
- Use the **select button** to select the filter you want to reset.
- Press and hold the **reset button** again for 3 seconds to complete the reset (a confirmation tone will sound).

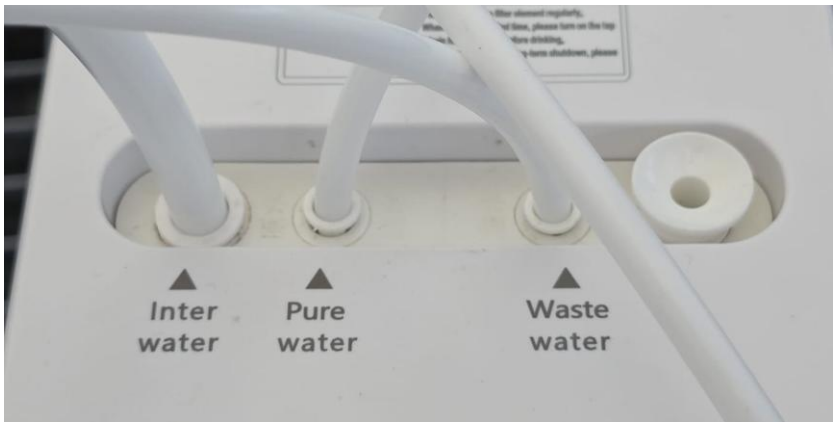
**Step 4: Final flushing and leak test**

- Press and hold the **select button** for 3 seconds to start flushing.
- Open the gooseneck faucet, let the water run for 5-10 minutes and then close it again.
- Meanwhile, carefully check the device for leaks or irregularities.

## 3. Installation diagram under the sink:




(This picture is for reference only, please refer to the type of product.)




**Connections:**

**Inter Water**

Connection to the cold water pipe or to the water connection on the wall. Here, the untreated tap water is fed into the system.

**Pure Water**

Outlet for the filtered drinking water. This connection is connected to the tap.

**Waste Water**

Discharge of the concentrate (residual water). The hose is connected to the siphon or drain.

**Procedure for starting and emptying the system (initial commissioning)**

To ensure optimal performance and safe operation, perform the following steps after installation:

**Step 1: Leak test and activation of the power supply**

- Open the three-way ball valve to release the water flow.
- Carefully check all connections for possible leaks.
- Next, connect the power supply and turn on the system.

**Step 2: Flushing the RO membrane**

- Open the pure water tap to start flushing the reverse osmosis membrane.
- This step is important to optimize filter performance and remove production residues from the manufacturing process.

**Recommended Conditioning Procedure**

- With the tap open, allow the system to **produce water continuously** for 10 minutes.
- Then close the tap and leave the system unused for 24 hours.
- After that, open the tap again and let the water run for another **10-20 minutes** .
- Once this process is complete, the water is suitable for direct consumption.

⚠️ ***Note:*** *Improper installation or use may result in water damage or reduced filtration performance.*

## 4. Important safety and usage instructions

To ensure safe and efficient operation of your water filter, please observe the following precautions:

**Hoses**

- Only use the new hose line that came with the device.
- Never reuse old or already used hoses.

**Component life and maintenance**

- The device contains components with a limited service life.
- Perform regular inspections, maintenance, and replacement according to the recommendations given in this manual.

**Power Supply & Electrical Safety**

1. In the event of a malfunction:
   - Disconnect the power supply and shut off the water supply.
   - Contact authorized customer service.
2. Power supply
   - The device is designed for a power supply of **100–240 V, 50/60 Hz** .
   - Only use the manufacturer's original power supply.
3. Damaged power supply
   - A defective power supply may only be replaced by the manufacturer or authorized service specialists.

**Water Source Requirements**

- Only use municipal tap water.
- Permissible water pressure: **1 -4 bar**.
- Water temperature: **5 °C – 38 °C**.
- Ambient temperature: **4 °C – 40 °C**.
- Operation outside these limits is prohibited and can lead to malfunctions or safety risks.

**Installation Environment**

- The device may only **be installed** indoors.
- Place it on a **stable, level surface**.
- Avoid installations in close proximity to drainage areas to reduce the risk of water damage.
- Keep a minimum distance of **1.5 meters** from areas with direct water drainage.

**Advanced precautions for non-use**

- When not in use for more than **3 days**:
  - Switch off the power and water supply to avoid damage caused by pressure surges (water hammer).
  - When recommissioning, allow water to drain for the first few minutes to prevent taste impairment.

**Exposure warning**

- Avoid direct sunlight and outdoor installation.
- Prolonged exposure to UV can damage materials in the system and affect performance.

**Low Temperature Warning**

- Never expose the device to temperatures below 0 °C.
- Freezing temperatures can cause internal pipes to crack and damage the system.

**Fire safety**

- Do not store or use flammable, explosive, or heat-sensitive materials near the device.

**Use of original accessories**

- Only use official accessories and spare parts from the manufacturer.
- Unauthorized components may compromise safety and void the product warranty.

**Disclaimer**

The manufacturer accepts no liability for damage or injury resulting from non-compliance with the safety and use instructions.

## 5. Warranty

**Sydros Water GmbH** provides a voluntary two-year manufacturer's warranty of 2 years from the date of purchase for the SYDROS product described in this user manual.

The warranty covers **defects in materials and workmanship** that occur when the product is used as intended.

The warranty does not cover, in particular, damage caused by:

- improper use or use other than intended incorrect installation or assembly,
- unauthorized modifications or repairs,
- operation outside the specified technical specifications,
- external influences or improper storage,
- normal wear and tear as well as consumables and wear parts, provided that there is no material or manufacturing defect.

The consumer's statutory rights in the event of defects exist independently of this warranty. Exercising these statutory rights is free of charge and is not limited by this warranty.

**Guarantor:**

Sydros Water GmbH

Kirrlacher Straße 6

76646 Bruchsal

Germany

**Making a Warranty Claim:**

To verify a warranty claim, please contact us and provide the product name, date of purchase, a description of the defect and, if available, proof of purchase:

Email: info@sydros.de

Phone: +49 1590 613 2674

The geographical scope of the warranty depends on the country in which the product was first sold to the consumer by Sydros Water GmbH or an authorized sales partner.

## 6. Disposal

The product, its components and packaging must be disposed of in accordance with the applicable legal and local disposal and recycling regulations.

**Packaging:**
Packaging materials must be separated by type of material and sent to the designated collection and recycling systems.

**Filters, cartridges and other consumables:**
Used filter media, filter cartridges and other replaceable components must be disposed of in accordance with local disposal regulations. In the event of possible contamination by special substances, different disposal requirements may apply.

**Electrical and electronic products:**
If the product or individual components are electrical or electronic equipment, they must not be disposed of with unsorted household waste. They must be taken to designated return or collection points.

Please also note the applicable national and municipal disposal regulations.

## 7. Compliance and product safety

The SYDROS product described in this user manual has been designed and manufactured in accordance with the applicable European and national requirements for product safety, health and environmental protection applicable at the time of placing on the market.

Where applicable, the requirements of **Regulation (EU) 2023/988 on general product safety** have been taken into account.

Depending on the design, function and equipment of the respective product, additional European and national legislation as well as technical standards may apply. These may include, in particular, regulations on electrical and electronic equipment, electromagnetic compatibility, electrical safety, substance restrictions, waste electrical and electronic equipment, and products and materials that come into contact with drinking water.

The legal acts, technical standards and conformity assessment procedures that are actually applicable to the respective product are determined on a product-specific basis and documented in the associated technical documentation.

**CE marking:**
CE marking is applied only to products for which it is required by the relevant European harmonization legislation. By affixing the CE marking, the manufacturer declares that the product in question meets the requirements of the relevant EU legislation applicable to this product.

A product-specific EU declaration of conformity is prepared and provided in accordance with the regulations applicable to the respective product, where required by law.

## Manufacturer

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Germany

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Thank you for choosing SYDROS.

For safe and reliable operation, please refer to the technical data, safety instructions and installation and maintenance specifications of the respective product.

**Looking for more information?**

Scan the QR code to visit our FAQ page and discover everything you need to know.

Don't forget to follow us on Instagram to stay up to date and support SYDROS as we continue to grow every day.

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